

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/017237 A2

- (51) International Patent Classification⁷: **D01D 5/00**
- (21) International Application Number:
PCT/EP2004/009101
- (22) International Filing Date: 13 August 2004 (13.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0319174.9 15 August 2003 (15.08.2003) GB
- (71) Applicant (*for all designated States except US*):
SPINTEC ENGINEERING GMBH [DE/DE]; Cannstatter Strasse, 48, 70734 Fellbach (DE).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **KNIGHT, David, Philip** [GB/GB]; 107 Teg Down Meads, Winchester, Hampshire SO22 5NG (GB).
- (74) Agent: **HARRISON, Robert**; Rouse Patents, Windsor House, Cornwall Road, Harrogate HG1 2PW (GB).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: APPARATUS AND METHOD FOR THE SELECTIVE ASSEMBLY OF PROTEIN

(57) Abstract: The invention describes a method for the selective assembly of proteins into a structure. The method has a first step of the inclusion of a first partial protein sequence -GYG- into a further protein sequence. The protein sequence has in its native state a loop structure. A second step involves the addition of metal ions to thereby form the selective assembly.

WO 2005/017237 A2

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/017237 A3

(51) International Patent Classification⁷: **C07K 14/435**,
D01D 5/06

(21) International Application Number:
PCT/EP2004/009101

(22) International Filing Date: 13 August 2004 (13.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0319174.9 15 August 2003 (15.08.2003) GB

(71) Applicant (for all designated States except US):
SPINTEC ENGINEERING GMBH [DE/DE]; Cannstat-
ter Strasse, 48, 70734 Fellbach (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **KNIGHT, David**,
Philip [GB/GB]; 107 Teg Down Meads, Winchester,
Hampshire SO22 5NG (GB).

(74) Agent: **HARRISON, Robert**; Rouse Patents, Windsor
House, Cornwall Road, Harrogate HG1 2PW (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
31 March 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS AND METHOD FOR THE SELECTIVE ASSEMBLY OF PROTEIN

(57) Abstract: The invention describes a method for the selective assembly of proteins into a structure. The method has a first step of the inclusion of a first partial protein sequence -GYG- into a further protein sequence. The protein sequence has in its native state a loop structure. A second step involves the addition of metal ions to thereby form the selective assembly.

WO 2005/017237 A3